

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
6 January 2005 (06.01.2005)

PCT

(10) International Publication Number  
WO 2005/000136 A1

(51) International Patent Classification<sup>7</sup>: A61B 17/70

(21) International Application Number: PCT/IB2004/002458

(22) International Filing Date: 24 June 2004 (24.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0307777 27 June 2003 (27.06.2003) FR  
60/490,520 29 July 2003 (29.07.2003) US

(71) Applicant (for all designated States except US): MEDICREA TECHNOLOGIES [FR/FR]; ZI Chef de Baie, F-17000 La Rochelle (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CLEMENT, Jean-Luc [FR/FR]; 230 Chemin de Montfort, F-06480

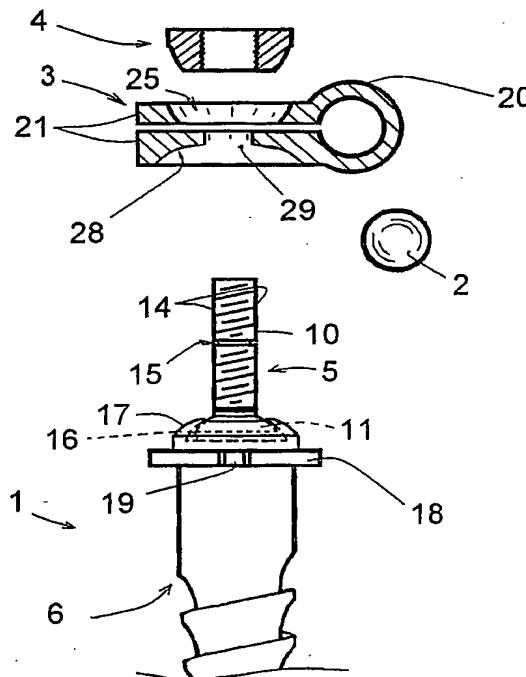
La Colle Sur Loup (FR). FIERE, Vincent [FR/FR]; 50 Boulevard des Belges, F-69006 Lyon (FR). TAYLOR, Jean [FR/FR]; Villa Poralto, 25 Avenue de Poralto, F-06400 Cannes (FR). ADAM, Yves [FR/FR]; 4 route de Saint Louet, F-14280 Authie (FR). VILLARET, Bernard [FR/FR]; 20 rue de Salles, F-17220 Croix-Chapeau (FR).

(74) Common Representative: MEDICREA TECHNOLOGIES; ZI Chef de Baie, F-17000 La Rochelle (FR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: VERTEBRAL OSTEOSYNTHESIS EQUIPMENT



(57) Abstract: This equipment includes bony anchoring members, one or two linking rods (2), intended to be connected to these anchoring members and to be attached to the vertebrae by dint thereof, parts (3) for connecting this (these) linking rod(s) (2) to these anchoring members, and clamping means, such as nuts (4), for locking the linking rod(s) (2) in said connecting parts (3); at least one anchoring member is of the "polyaxial" type, i.e. comprises one proximal stud (5) articulated with respect to a body (6) intended for gripping a vertebra. According to the invention, - the proximal stud (5) of said polyaxial anchoring member exhibits an articulation head (11) in the form of a spherical cap; and said body (6) of this anchoring member comprises a cavity (16) intended for accommodating this articulation head (11) and a wall (17) surrounding this cavity (16), this wall (17) being crimped around said articulation head (11).

WO 2005/000136 A1



(84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

**Published:**

— with international search report